

MCS-EXV-DRIVER



Used for the positioning of
Stepper Expansion Valves



MCS-EXV-DRIVER

The MCS-EXV-DRIVER is used to move an electronic stepper expansion valve. The position of the valve is based on an analog input voltage of 0-10 VDC (0 VDC = 0% valve is closed, 10 VDC = 100% valve is fully opened).

The MCS-EXV-DRIVER also supports overdriving on full opened and full closed voltage signals.

Another advantage of using the MCS-EXV-DRIVER is that it eliminates the need for having a liquid line solenoid. The MCS-EXV-DRIVER has capacitors that store enough power to close the valve when input power fails.

The amount of time to charge can be seen from the LED indicator. At power up the LED indicator will blink until the storage system is fully charged. At power off the valve is driven closed and the LED indicator will blink. When the valve is closed and the storage system is depleted the LED indicator will be off.

The MCS-EXV-DRIVER supports several electronic valve manufacturers including Sporlan, Alco, Danfoss and Carel.

VALVE TYPE IDENTIFIER -

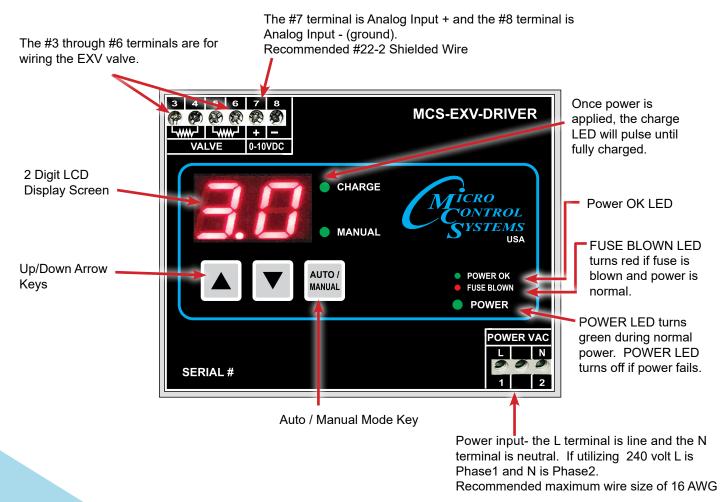
| Valve Code | Firmware Ver. | # of Steps | EXV TYPE |
|------------|------------------|------------|--|
| A1 | 5.5 | 750 | Alco EX4, EX5, EX6 |
| A2 | 5.5 | 1660 | Alco EX7 |
| A3 | 5.5 | 2600 | Alco EX8 |
| CL | 6.2 | 500 | CAREL E2V, E3V, E4V, E5V, E6V, E7V |
| D1 | 5.5 | 2625 | Danfoss ETS-12B, -24B, -25B, -50B, KVS-15 |
| D2 | 5.5 | 3530 | Danfoss ETS-100B |
| D3 | 5.5 | 3810 | Danfoss ETS-250, -400, KVS-42 |
| D4 | 5.5 | 600 | Danfoss ETS-12C, -24C, -25C, -50C, -100C |
| D5 | 7.9 | 1100 | Danfoss CCTM-2, CCMT-4, CCMT-8 |
| D6 | 7.9 | 800 | Danfoss CCMT-16 |
| D7 | 7.9 | 1400 | Danfoss CCMT-24 |
| D8 | 7.9 | 2300 | Danfoss CCMT-30 |
| D9 | 7.9 | 2200 | Danfoss CCMT-42 |
| H3 | 7.5 | 2600 | Sanhua VPF-12.5, -25 |
| H4 | 7.5 | 2600 | Sanhua VPF-50 |
| H5 | 7.5 | 3500 | Sanhua VPF-100 |
| H6 | 7.5 | 3800 | Sanhua VPF-150, -250, -400 |
| P1 | 7.5 | 2500 | Sporlan GC-10, -20, -30, -40, -50; FGB-60, -70 |
| S1 | 5.5 | 1596 | Sporlan SEI 0.5-11 |
| S2 | 5.5 | 1596 | Sporlan SER 1.5-20 |
| S3 | 5.5 | 3193 | Sporlan SEI 30; SDR -3, SDR-3X |
| S4 | 5.5 | 2500 | Sporlan SER-AA, -A, -B, -C, -D; SER(I)-F, -G, -J, -K, -L; CDS -2, -4, -7 |
| S5 | 5.5 | 6386 | Sporlan SEI-50, SEH (I)-100, -175, -400, T; Y1218/ Y1231; SEH-P; CDS -9, -16, -17; SDR -4, -5 |
| T1 | 6.1 | 1596 | Sporlan SEI 0.5-11 - two valves wired to one MCS-EXV-DRIVER |
| T2 | 6.1 | 1596 | Sporlan SER 1.5-20 - two valves wired to one MCS-EXV-DRIVER |
| Т3 | 6.1 | 3193 | Sporlan SEI 30; SDR –3, SDR-3X - two valves wired to one MCS-EXV-DRIVER |
| T4 | 6.1 | 2500 | Sporlan SER-AA, -A, -B, -C, -D; SER(I)-F, -G, -J, -K, -L; CDS -2, -4, -7 - two valves wired to one MCS-EXV-DRIVER |
| T5 | 6.1 | 6386 | Sporlan SEI-50, SEH (I)-100, -175, -400, T; SEH-P; CDS –9, -16, -17; SDR –4, -5 - two valves wired to one MCS-EXV-DRIVER |

MCS-EXV-DRIVER

Features

- Modes of operation: Auto/Manual
- Closing of the valve on loss of power.
- Universal main supply operation (accepts 110 to 240 VAC ±10% (50/60 Hz); 44 VA or 24 VAC ± 10% (50/60 hZ)
- Supports a variety of expansion valves
- POWER OK indicator LED
- FUSE BLOWN indicator LED
- If a power failure occurs it activates the MCS-EXV-DRIVER into power down mode.

User Interface





The MCS Commitment

The founders of Micro Control Systems Inc. have been in the manufacture of Microprocessor Controls their entire careers and have over eight decades of combined HVAC/R Microprocessor Controls experience. MCS was founded to meet the needs of the Utility and HVAC/R Industries with products based on the following design criteria:

- ♦ Quality & Service
 - ♦ Cost Effectiveness
 - ♦ Ease of Use

Our commitment is to provide practical solutions for the industries needs and to be both a leader and partner in the effective use of Microprocessor Controls.

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